

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Ken ASTLEY et al.

Application No.: New U.S. Patent Application

Filed: December 15, 2003

Docket No.: 114673

For: BEARING ANOMALY DETECTION AND LOCATION

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of the reference is discussed in the present specification. (Ref. 9)
- ☒ 3. The references were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information. (Refs. 2, 12-15)
- ☒ 4. The present application was filed or entered the U.S. National Stage of the PCT after June 30, 2003. In accordance with the June 11, 2003, Notice waiving the requirements of 37 C.F.R. §1.98(a)(2)(i), copies of any U.S. patents and patent application publications are not attached. (Refs. 1-8)

Respectfully submitted,



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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 114673		APPLICATION NO. New U.S. Patent Application	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT Ken ASTLEY et al.			
				FILING DATE December 15, 2003			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
	1	5,402,521	03/28/1995	NIIDA et al.			
	2	5,684,718	11/04/1997	JENKINS et al.			
	3	5,210,704	05/11/1993	HUSSEINY			
	4	5,847,658	12/08/1998	IRIE et al.			
	5	5,995,910	11/30/1999	DISCENZO			
	6	5,206,816	04/27/1993	HILL et al.			
	7	5,784,273	07/21/1998	MADHAVAN			
	8	5,774,376	06/30/1998	MANNING			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	9	WO 02/03041 (abst only)	01/10/2002	PCT			
	10	EP 1 014 054 A2	06/28/2000	EUROPE			
	11	GB 2 277 151 A	10/19/1994	GREAT BRITAIN			
	12	GB 2 349 952 A	11/15/2000	GREAT BRITAIN			
	13	GB 2 256 491 A	12/09/1992	GREAT BRITAIN			
	14	GB 2 135 061 A	08/22/1984	GREAT BRITAIN			
	15	EP 0 908 805 A1	04/14/1999	EUROPE			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	16	X. Li et al. "Fault prognosis for large rotating machinery using neural network" <i>Application of artificial intelligence in engineering IX</i> . 19-21 J, pages 99-105, Aieng 94					
	17	Gelb et al., "Applied Optimal Estimation", <i>MIT Press</i> 1974, pp. 102-155					
	18	Nairac et al., "A System for the Analysis of Jet Engine Vibration Data", <i>Integrated Computer-Aided Engineering</i> , Vol. 6, No. 1, pp. 53-65, 1999					
	19	Ghahramani et al., "Parameter Estimation for Linear Dynamical Systems", <i>Technical Report CRG-TR-96-2</i> , University of Toronto, February 22, 1996, pp. 1-6					
	20	Roweis et al., "A Unifying Review of Linear Gaussian Models", <i>Neural Computation</i> , Vol. 11, 1999, pp. 305-345					
	21	Ghahramani et al., "Learning Nonlinear Dynamical Systems using an EM Algorithm", in Kearns et al. (ed), <i>Advances in Neural Information Processing Systems</i> , Vol. 11, MIT Press, 1999					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: December 15, 2003